EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 10170306
PUBLICATION DATE : 26-06-98

APPLICATION DATE : 06-12-96
APPLICATION NUMBER : 08327223

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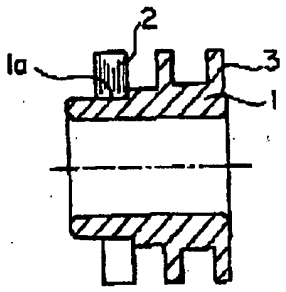
INT.CL. : G01D 5/245 G01P 3/44 H01F 38/14

TITLE : RESOLVER ROTOR STRUCTURE



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a resolver rotor structure which can be manufactured automatically by a method wherein a shaft and a rotor transformer are cut integrally and both are constituted of a magnetic material.

SOLUTION: A first setp part 1a is formed on the outer circumference of a hollow shaft 1, and a rotor 2, for detection, which is composed of a laminated core is installed at the step part 1a by a fitting operation or a bonding operation. Then, the shaft 1 is constituted of a magnetic material which can be worked by a lathe by a cutting operation, and a rotor transformer 3 is formed by a cutting operation integrally with the shaft 1. Consequently, the shaft 1 and the transformer 3 are formed integrally of the same material. As a result, the shaft 1 and the transformer 3 can be worked automatically by an automatic machine, the cost of materials can be lowered, the number of components can be reduced, and the cost of a resolver rotor structure can be lowered sharply.

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